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**HPCL Engineer (Civil) 23 Dec 2023**

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Participant ID	
Participant Name	
Test Center Name	
Test Date	23/12/2023
Test Time	2:00 PM - 4:30 PM
Subject	Civil Engineer

Section : English Language

Q.1 Fill in the blank with the correct word from the below options.

Without water \_\_\_\_\_ animal can survive. In desert regions the greatest threat to life is drying up.

- Ans
- 1. all
  - 2. none
  - 3. each
  - 4. no

Question ID : 630680507270  
Option 1 ID : 6306801982537  
Option 2 ID : 6306801982539  
Option 3 ID : 6306801982540  
Option 4 ID : 6306801982538  
Status : Answered  
Chosen Option : 4

Q.2 Choose the most appropriate one-word substitution for the below word.

"A story in which animals or objects speak and give wholesome moral lesson"

- Ans
- 1. Fable
  - 2. Legend
  - 3. Anthology
  - 4. Pamphlet

Question ID : 630680507264  
Option 1 ID : 6306801982516  
Option 2 ID : 6306801982514  
Option 3 ID : 6306801982515  
Option 4 ID : 6306801982513  
Status : Answered  
Chosen Option : 1

Q.3 Select the most appropriate SYNONYM of the given word below.

Shove

- Ans  1. Push  
 2. Flow  
 3. Comfort  
 4. Relaxed

Question ID : 630680507269  
Option 1 ID : 6306801982534  
Option 2 ID : 6306801982533  
Option 3 ID : 6306801982536  
Option 4 ID : 6306801982535  
Status : Not Answered  
Chosen Option : --

Q.4 In the following question a part of the statement is given in brackets. You are required to replace the text with correct Idioms given in the options.

If you have done something wrong, you have to (accept unpleasant consequences of your actions). There's no escaping out of it.

- Ans  1. hold your horses  
 2. face the music  
 3. jump the gun  
 4. hit the book

Question ID : 630680507267  
Option 1 ID : 6306801982525  
Option 2 ID : 6306801982528  
Option 3 ID : 6306801982526  
Option 4 ID : 6306801982527  
Status : Answered  
Chosen Option : 1

Q.5 In the following question a part of the statement is given in brackets. You are required to replace the text with correct Idioms given in the options.

I was very tensed before my exam, but I was (extremely happy) when I finished my exam.

- Ans  1. cut corners  
 2. left out in the cold  
 3. on cloud nine  
 4. blow hot and cold

Question ID : 630680507266  
Option 1 ID : 6306801982523  
Option 2 ID : 6306801982521  
Option 3 ID : 6306801982524  
Option 4 ID : 6306801982522  
Status : Answered  
Chosen Option : 3

Q.6 Select the most appropriate adjective from the given option to fill in the blanks for the given sentence.

They ate some \_\_\_\_\_ food.

- Ans
- 1. delicious
  - 2. deliciously
  - 3. ideal
  - 4. fantastically

Question ID : 630680507261  
Option 1 ID : 6306801982503  
Option 2 ID : 6306801982501  
Option 3 ID : 6306801982504  
Option 4 ID : 6306801982502  
Status : Answered  
Chosen Option : 1

Q.7 Choose the most logical order of the sentences from among the four given choices to construct a coherent paragraph.

Climate change is an unprecedented global crisis driven by human activities, primarily greenhouse gas emissions.

- A) Urgent action is needed to mitigate its effects and build resilience for a sustainable future.
- B) Its far-reaching impacts threaten ecosystems, economies, and livelihoods worldwide.
- C) It necessitates international cooperation, innovative policies, and sustainable practices to preserve our planet for future generations. Taking up this challenge is not a choice but an ethical imperative for humanity's survival.
- D) Addressing climate change demands immediate and comprehensive action at the global level.

- Ans
- 1. ADCB
  - 2. CDAB
  - 3. ABDC
  - 4. BADC

Question ID : 630680507263  
Option 1 ID : 6306801982509  
Option 2 ID : 6306801982512  
Option 3 ID : 6306801982510  
Option 4 ID : 6306801982511  
Status : Answered  
Chosen Option : 3

Q.8 Choose the most appropriate one-word substitution for the below word.

"something that is no longer produced or used; out of date"

- Ans
- 1. Operative
  - 2. Recent
  - 3. Secret
  - 4. Obsolete

Question ID : 630680507265  
Option 1 ID : 6306801982519  
Option 2 ID : 6306801982517  
Option 3 ID : 6306801982520  
Option 4 ID : 6306801982518  
Status : Answered  
Chosen Option : 4

Q.9 Select the most appropriate SYNONYM of the given word below.

Influx

- Ans
- 1. Affluent
  - 2. Abate
  - 3. sack
  - 4. Rush

Question ID : 630680507268  
Option 1 ID : 6306801982530  
Option 2 ID : 6306801982532  
Option 3 ID : 6306801982531  
Option 4 ID : 6306801982529  
Status : Answered  
Chosen Option : 2

Q.10 Fill in the blank with the correct word from the below options.

One of nature's masterpieces among creatures equipped to deal with desert life is the hardy camel. Stories range the desert lands far and wide about \_\_\_\_\_ endurance feats by camels.

- Ans
- 1. total
  - 2. popular
  - 3. little
  - 4. remarkable

Question ID : 630680507272  
Option 1 ID : 6306801982546  
Option 2 ID : 6306801982545  
Option 3 ID : 6306801982547  
Option 4 ID : 6306801982548  
Status : Answered  
Chosen Option : 2

Q.11 Select the most appropriate adjective from the given option to fill in the blanks for the given sentence.

That is an \_\_\_\_\_ film.

- Ans
- 1. interested
  - 2. identical
  - 3. ideally
  - 4. interesting

Question ID : 630680507260  
Option 1 ID : 6306801982497  
Option 2 ID : 6306801982498  
Option 3 ID : 6306801982499  
Option 4 ID : 6306801982500  
Status : Answered  
Chosen Option : 4

Q.12 Choose the most logical order of the sentences from among the four given choices to construct a coherent paragraph.

The pursuit of scientific knowledge has played a significant role in shaping our understanding of the world around us.

- A) The notion that science is solely responsible for answering life's most profound questions is a reductionist one.
- B) Science is but one way of studying the universe, and while it has made significant contributions to our understanding of the world, it is not the only approach.
- C) Yet, the notion that science can provide a final answer to all of life's questions is a misguided one.
- D) While scientific inquiry has contributed immensely to our understanding of the universe, it is only one of many approaches to comprehending the complexities of existence.

- Ans
- 1. CDAB
  - 2. DCAB
  - 3. ABCD
  - 4. BCAD

Question ID : 630680507262  
Option 1 ID : 6306801982506  
Option 2 ID : 6306801982505  
Option 3 ID : 6306801982508  
Option 4 ID : 6306801982507  
Status : Not Answered  
Chosen Option : --

Q.13 Fill in the blank with the correct word from the below options.

One of nature's masterpieces among creatures equipped to \_\_\_\_\_ with desert life is the hardy camel.

- Ans
- 1. attain
  - 2. cope
  - 3. resist
  - 4. assist

Question ID : 630680507271  
Option 1 ID : 6306801982544  
Option 2 ID : 6306801982543  
Option 3 ID : 6306801982541  
Option 4 ID : 6306801982542  
Status : Answered  
Chosen Option : 2



**Comprehension:**

Choose the most appropriate one-word substitution for the below word.

The practice of damming rivers to create reservoirs has a long history, with examples dating back to Roman times. Over the years, the reasons for damming rivers have evolved, with three main purposes being human consumption, irrigation, and industrial use. However, while damming rivers provides many benefits, it also causes significant problems, especially in underdeveloped countries.

One of the primary advantages of damming rivers is to provide a reliable water source during droughts. Rainfall is never uniform enough to provide a steady flow of water, but reservoirs can hold water for extended periods, which can be used during dry weather. Dams also help control the flow of floodwater in mountainous areas, which can destroy crops, homes, and animal and human life. Dams can also retain large quantities of water for controlled use, working from sea to river and vice versa.

Another significant advantage of damming rivers is the production of hydroelectric power. By channeling water through conduits and using it as mechanical power for turbines, dams can produce vast amounts of energy. The reservoir water is also used in nuclear power stations for cooling and other purposes, with the water being returned to the river or sea afterward. Dams can also provide a constant depth for rivers, making them navigable by large vessels and benefiting a country's communication system.

On the downside, damming a river can cause significant problems. A great area of land, with its trees, flora and fauna, farms, and houses, has to be inundated. Neither the residents who have to resettle elsewhere nor environmentalists appreciate this. The problem is more acute when the countryside being spoilt is environmentally unique. Creating an artificial lake inevitably changes the character of a large area, with farmland destroyed, and natural scenery despoiled, in some people's opinion. People also have to move, which can be inconvenient.

**SubQuestion No : 14**

Q.14 Select the most appropriate **SYNONYM** of the given word below.

Reliable

- Ans
- 1. False
  - 2. Disputed
  - 3. Uncertain
  - 4. Dependable

Question ID : 630680507276

Option 1 ID : 6306801982558

Option 2 ID : 6306801982559

Option 3 ID : 6306801982557

Option 4 ID : 6306801982560

Status : Answered

Chosen Option : 4

**Comprehension:**

Choose the most appropriate one-word substitution for the below word.

The practice of damming rivers to create reservoirs has a long history, with examples dating back to Roman times. Over the years, the reasons for damming rivers have evolved, with three main purposes being human consumption, irrigation, and industrial use. However, while damming rivers provides many benefits, it also causes significant problems, especially in underdeveloped countries.

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**SubQuestion No : 15**

**Q.15 Identify the suitable title for the passage.**

- Ans**    1. The Pros and Cons of Damming Rivers for Human Use  
 2. Floods and its issues  
 3. Dams- wastage of money  
 4. Need to create more reservoirs

Question ID : 630680507274

Option 1 ID : 6306801982551

Option 2 ID : 6306801982550

Option 3 ID : 6306801982552

Option 4 ID : 6306801982549

Status : Answered

Chosen Option : 1





**Comprehension:**

Choose the most appropriate one-word substitution for the below word.

The practice of damming rivers to create reservoirs has a long history, with examples dating back to Roman times. Over the years, the reasons for damming rivers have evolved, with three main purposes being human consumption, irrigation, and industrial use. However, while damming rivers provides many benefits, it also causes significant problems, especially in underdeveloped countries.

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**SubQuestion No : 16**

Q.16 Select the most appropriate **SYNONYM** of the given word below.

**Inevitably**

- Ans  1. Unavoidable  
 2. Guiltless  
 3. Steady  
 4. Avertable

Question ID : 630680507277  
Option 1 ID : 6306801982562  
Option 2 ID : 6306801982563  
Option 3 ID : 6306801982561  
Option 4 ID : 6306801982564  
Status : Answered  
Chosen Option : 1



**Comprehension:**

Choose the most appropriate one-word substitution for the below word.

The practice of damming rivers to create reservoirs has a long history, with examples dating back to Roman times. Over the years, the reasons for damming rivers have evolved, with three main purposes being human consumption, irrigation, and industrial use. However, while damming rivers provides many benefits, it also causes significant problems, especially in underdeveloped countries.

One of the primary advantages of damming rivers is to provide a reliable water source during droughts. Rainfall is never uniform enough to provide a steady flow of water, but reservoirs can hold water for extended periods, which can be used during dry weather. Dams also help control the flow of floodwater in mountainous areas, which can destroy crops, homes, and animal and human life. Dams can also retain large quantities of water for controlled use, working from sea to river and vice versa.

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On the downside, damming a river can cause significant problems. A great area of land, with its trees, flora and fauna, farms, and houses, has to be inundated. Neither the residents who have to resettle elsewhere nor environmentalists appreciate this. The problem is more acute when the countryside being spoilt is environmentally unique. Creating an artificial lake inevitably changes the character of a large area, with farmland destroyed, and natural scenery despoiled, in some people's opinion. People also have to move, which can be inconvenient.

**SubQuestion No : 17**

**Q.17 Identify the central theme of the passage.**

- Ans**  1. One of the primary advantages of damming rivers is to provide a reliable water source during droughts.
2. It talks about the advantages and disadvantages of creating dams to prevent flood and other natural calamities.
3. Dam's creation does not have any disadvantages at all; it is being created for the betterment of human beings only.
4. It talks about the issues caused by dams to the navigation of large vessels and thus affecting country's communication system.

Question ID : 630680507275

Option 1 ID : 6306801982555

Option 2 ID : 6306801982556

Option 3 ID : 6306801982554

Option 4 ID : 6306801982553

Status : Answered

Chosen Option : 2

**Section : Quantitative Aptitude**

**Q.1** The difference between simple interest and compound on Rs. 1400 for one year at 10% per annum reckoned half-yearly is:

- Ans**  1. Rs. 5
2. Rs. 3.5
3. Rs. 2.75
4. Rs. 4

Question ID : 630680507607

Option 1 ID : 6306801983872

Option 2 ID : 6306801983869

Option 3 ID : 6306801983871

Option 4 ID : 6306801983870

Status : Not Answered

Chosen Option : --

Q.2  $2x+3y = 38$  and  $\frac{x+y}{y} = \frac{15}{8}$ , then find the value of  $6x + 7y$ .

- Ans
- 1. 102
  - 2. 65
  - 3. 98
  - 4. 78

Question ID : 630680507613  
Option 1 ID : 6306801983893  
Option 2 ID : 6306801983896  
Option 3 ID : 6306801983894  
Option 4 ID : 6306801983895  
Status : Answered  
Chosen Option : 3

Q.3 A pair of linear equations which has a unique solution  $x = 4, y = -5$  is

- Ans
- 1.  $x + y = -1; 3x - 4y = -5$
  - 2.  $2x - y = 1; 3x + 2y = 3$
  - 3.  $2x + 4y = -12; 4x + 3y = 1$
  - 4.  $x - 4y - 14 = 0; 5x - y - 13 = 0$

Question ID : 630680507626  
Option 1 ID : 6306801983945  
Option 2 ID : 6306801983947  
Option 3 ID : 6306801983946  
Option 4 ID : 6306801983948  
Status : Answered  
Chosen Option : 3

Q.4 If the value of  $\theta + \phi = \frac{\pi}{2}$ , and  $\operatorname{cosec} \theta = 2$ , what will be the value of  $\sin \phi$ ?

- Ans
- 1.  $\frac{2}{\sqrt{3}}$
  - 2.  $\frac{\sqrt{3}}{2}$
  - 3.  $\sqrt{3}$
  - 4. 2

Question ID : 630680507637  
Option 1 ID : 6306801983992  
Option 2 ID : 6306801983990  
Option 3 ID : 6306801983989  
Option 4 ID : 6306801983991  
Status : Answered  
Chosen Option : 2

Q.5 The table given below shows the selling price and cost price of five different articles

Article	Selling Price	Cost Price
Grinder	2500	2800
Iron	1800	1600
Lamp	1200	900
Induction	2000	2400
Fan	800	480

Find the gain percentage of Fan.

- Ans
- ✓ 1. 66.67%
  - ✗ 2. 56.56%
  - ✗ 3. 70%
  - ✗ 4. 60 %

Question ID : 630680507609  
Option 1 ID : 6306801983879  
Option 2 ID : 6306801983877  
Option 3 ID : 6306801983880  
Option 4 ID : 6306801983878  
Status : Answered  
Chosen Option : 1

Q.6 If 3, 9, and 27 are in proportion, what is the fourth proportional?

- Ans
- ✗ 1. 134
  - ✓ 2. 81
  - ✗ 3. 99
  - ✗ 4. 66

Question ID : 630680507620  
Option 1 ID : 6306801983924  
Option 2 ID : 6306801983922  
Option 3 ID : 6306801983923  
Option 4 ID : 6306801983921  
Status : Answered  
Chosen Option : 2

Q.7 What is the value of  $2^5 \times 2^5 \times 2^{100}$ .

- Ans
- ✗ 1.  $2^{250}$
  - ✗ 2.  $2^{25000}$
  - ✗ 3.  $2^{5500}$
  - ✓ 4.  $2^{110}$

Question ID : 630680507611  
Option 1 ID : 6306801983887  
Option 2 ID : 6306801983886  
Option 3 ID : 6306801983885  
Option 4 ID : 6306801983888  
Status : Answered  
Chosen Option : 4

Q.8 Simplify the expression  $5+2 \times (9 - 4)^2 \div 5$ .

Ans  1. 15

2. 12

3. 11

4. 7

Question ID : 630680507612

Option 1 ID : 6306801983889

Option 2 ID : 6306801983890

Option 3 ID : 6306801983891

Option 4 ID : 6306801983892

Status : Answered

Chosen Option : 1

Q.9 Two pipes A & B can fill a tank in 8 min & 12 min respectively. Both the pipes are opened together but after 3 min, pipe A is turned off. What is the total time required to fill the tank

Ans  1. 4.5

2. 5

3. 4

4. 3.5

Question ID : 630680507622

Option 1 ID : 6306801983931

Option 2 ID : 6306801983932

Option 3 ID : 6306801983930

Option 4 ID : 6306801983929

Status : Answered

Chosen Option : 1

Q.10 If  $\frac{1}{3}$  is a root of the quadratic equation  $x^2 - mx - \frac{10}{9} = 0$ , then value of m is:

Ans  1. 5

2. 2

3. 4

4. 3

Question ID : 630680507629

Option 1 ID : 6306801983960

Option 2 ID : 6306801983957

Option 3 ID : 6306801983959

Option 4 ID : 6306801983958

Status : Answered

Chosen Option : 4



Q.11 If  $\tan \theta / \cot \theta = 3$ , what will be the value of  $\sin \theta + \cos \theta$ ?

Ans

1.  $\frac{\sqrt{3}}{2}$

2.  $\frac{(1 + \sqrt{3})}{2}$

3. 1

4. 2

Question ID : 630680507636

Option 1 ID : 6306801983985

Option 2 ID : 6306801983988

Option 3 ID : 6306801983986

Option 4 ID : 6306801983987

Status : Answered

Chosen Option : 2

Q.12 The point which lies on the x-axis at a distance of 8 units in the negative direction of the x-axis is.

Ans

1. (8,0)

2. (0,8)

3. (-8,0)

4. (0,-8)

Question ID : 630680507632

Option 1 ID : 6306801983969

Option 2 ID : 6306801983971

Option 3 ID : 6306801983970

Option 4 ID : 6306801983972

Status : Answered

Chosen Option : 3

Q.13 A cylindrical cistern whose radius is 8 cm is partly filled with water. If a conical block of iron whose radius is 3.2 cm

and height is 9 cm is wholly immersed in the water, by how much will the water level rise? (take  $\pi = \frac{22}{7}$ )

Ans

1. 0.66 cm

2. 0.52 cm

3. 0.83 cm

4. 0.48 cm

Question ID : 630680507631

Option 1 ID : 6306801983967

Option 2 ID : 6306801983966

Option 3 ID : 6306801983968

Option 4 ID : 6306801983965

Status : Answered

Chosen Option : 4

Q.14 The average age of husband, wife and their child 2 years ago was 24 years and that of wife and the child 4 years ago was 18 years. The present age of the husband is:

- Ans
- 1. 38 years
  - 2. 26 years
  - 3. 29 years
  - 4. 34 years

Question ID : 630680507605  
Option 1 ID : 6306801983863  
Option 2 ID : 6306801983861  
Option 3 ID : 6306801983864  
Option 4 ID : 6306801983862  
Status : Answered  
Chosen Option : 4

Q.15 Maria deposited Rs. 5000 in a bank account that offers a simple interest rate. After 4 years, she received Rs. 1600 as interest. What is the annual rate of interest?

- Ans
- 1. 9%
  - 2. 9.5%
  - 3. 8%
  - 4. 8.5%

Question ID : 630680507606  
Option 1 ID : 6306801983867  
Option 2 ID : 6306801983868  
Option 3 ID : 6306801983865  
Option 4 ID : 6306801983866  
Status : Answered  
Chosen Option : 3

Q.16 A fish tank has 16 male fish and 18 female fish. The probability of fish taken out is a male fish:

- Ans
- 1.  $\frac{4}{17}$
  - 2.  $\frac{9}{17}$
  - 3.  $\frac{8}{17}$
  - 4.  $\frac{16}{17}$

Question ID : 630680507627  
Option 1 ID : 6306801983951  
Option 2 ID : 6306801983952  
Option 3 ID : 6306801983950  
Option 4 ID : 6306801983949  
Status : Answered  
Chosen Option : 3

Q.17 Find the average of square of even numbers from 1 to 9.

- Ans
- 1. 18
  - 2. 46
  - 3. 30
  - 4. 32

Question ID : 630680507604  
Option 1 ID : 6306801983857  
Option 2 ID : 6306801983860  
Option 3 ID : 6306801983858  
Option 4 ID : 6306801983859  
Status : Answered  
Chosen Option : 3

Q.18 The product of two consecutive positive integers is 12882. To find the integers, this can be represented in the form of quadratic equation as

- Ans
- 1.  $x^2 + x + 12882 = 0$
  - 2.  $x^2 + x - 12882 = 0$
  - 3.  $2x^2 + x - 12882 = 0$
  - 4.  $x^2 - 2x - 12882 = 0$

Question ID : 630680507630  
Option 1 ID : 6306801983961  
Option 2 ID : 6306801983962  
Option 3 ID : 6306801983964  
Option 4 ID : 6306801983963  
Status : Answered  
Chosen Option : 1

Q.19 A mixture contains alcohol and water in the ratio of 4 : 1. If 5 liters of water is added to the mixture, then the ratio becomes 4 : 7. Find the quantity of alcohol in the given mixture?

- Ans
- 1. 3 liters
  - 2.  $\frac{10}{3}$  liters
  - 3.  $\frac{3}{10}$  liters
  - 4. 10 liters

Question ID : 630680507619  
Option 1 ID : 6306801983918  
Option 2 ID : 6306801983919  
Option 3 ID : 6306801983920  
Option 4 ID : 6306801983917  
Status : Answered  
Chosen Option : 2



Q.20 If side of the square is increased by 3 cm, then its area increases by 153 sq.cm. What is the perimeter of original square?

- Ans
- 1. 24 cm
  - 2. 48 cm
  - 3. 102 cm
  - 4. 96 cm

Question ID : 630680507634  
Option 1 ID : 6306801983977  
Option 2 ID : 6306801983978  
Option 3 ID : 6306801983980  
Option 4 ID : 6306801983979  
Status : Answered  
Chosen Option : 4

Q.21 Not taking all stoppages into the account, the speed of the bus is 44kmph and including stoppages, it is 32 kmph. For how many minutes does the bus stop per hour?

- Ans
- 1. 14.23 minutes
  - 2. 16.38 minutes
  - 3. 12 minutes
  - 4. 11 minutes

Question ID : 630680507623  
Option 1 ID : 6306801983935  
Option 2 ID : 6306801983936  
Option 3 ID : 6306801983934  
Option 4 ID : 6306801983933  
Status : Not Answered  
Chosen Option : --

Q.22 A tier has two punctures. The first punctures alone would have made the tier flat in 14 min and the second alone would have done it in 7 min. if air leaks out at a constant rate, how long does it take both the punctures together to make it flat?

- Ans
- 1. 6.27 minutes
  - 2. 4.67 minutes
  - 3. 5.67 minutes
  - 4. 5.34 minutes

Question ID : 630680507621  
Option 1 ID : 6306801983928  
Option 2 ID : 6306801983925  
Option 3 ID : 6306801983926  
Option 4 ID : 6306801983927  
Status : Answered  
Chosen Option : 2

Q.23 In a rectangle, diagonal is 6 times of its breadth. The ratio of length to breadth is:

- Ans
- ✓ 1.  $\sqrt{35}:1$
  - ✗ 2.  $\sqrt{35}:2$
  - ✗ 3.  $35:2$
  - ✗ 4.  $35:1$

Question ID : 630680507635  
Option 1 ID : 6306801983981  
Option 2 ID : 6306801983984  
Option 3 ID : 6306801983983  
Option 4 ID : 6306801983982  
Status : Answered  
Chosen Option : 1

Q.24 If the price of a product is increased by 28%, by what percentage should it be decreased to return to the original price?

- Ans
- ✗ 1. 31%
  - ✗ 2. 25.2%
  - ✗ 3. 29.2%
  - ✓ 4. 21.87%

Question ID : 630680507615  
Option 1 ID : 6306801983904  
Option 2 ID : 6306801983901  
Option 3 ID : 6306801983903  
Option 4 ID : 6306801983902  
Status : Answered  
Chosen Option : 4

Q.25 A trader expects a gain of 24 % on his cost price. If in a week his sale is of Rs. 580, then what is his profit?

- Ans
- ✓ 1. Rs. 112.26
  - ✗ 2. Rs. 108.78
  - ✗ 3. Rs. 103.45
  - ✗ 4. Rs. 106.55

Question ID : 630680507616  
Option 1 ID : 6306801983908  
Option 2 ID : 6306801983907  
Option 3 ID : 6306801983905  
Option 4 ID : 6306801983906  
Status : Answered  
Chosen Option : 1



Q.26 Find the marked price if selling price = Rs 2261 and Discount = 15%.

- Ans
- 1. Rs.2560
  - 2. Rs.2780
  - 3. Rs.2890
  - 4. Rs.2660

Question ID : 630680507618  
Option 1 ID : 6306801983913  
Option 2 ID : 6306801983915  
Option 3 ID : 6306801983916  
Option 4 ID : 6306801983914  
Status : Answered  
Chosen Option : 4

Q.27 The sides of a triangle are 6 cm, 10 cm and 14 cm. Determine the radius of the inscribed circle.

- Ans
- 1.  $\sqrt{2}$  cm
  - 2. 2 cm
  - 3. 3 cm
  - 4.  $\sqrt{3}$  cm

Question ID : 630680507633  
Option 1 ID : 6306801983976  
Option 2 ID : 6306801983974  
Option 3 ID : 6306801983973  
Option 4 ID : 6306801983975  
Status : Not Answered  
Chosen Option : --

Q.28 A shopkeeper sells his goods at cost price but uses a weight of 966 grams for a kg. weight. What is his gain percent?

- Ans
- 1. 2.78%
  - 2. 2.56%
  - 3. 3.52%
  - 4. 3.12%

Question ID : 630680507617  
Option 1 ID : 6306801983910  
Option 2 ID : 6306801983909  
Option 3 ID : 6306801983912  
Option 4 ID : 6306801983911  
Status : Answered  
Chosen Option : 3

**Q.29** A man travels at the speed of 6 kmph towards the office and comes back at the speed of 7 kmph. If it takes him 13 hours for going to and coming back from office. How far is office from the home?

- Ans**
- 1. 42 km
  - 2. 38 km
  - 3. 32 km
  - 4. 28 km

Question ID : 630680507624  
Option 1 ID : 6306801983940  
Option 2 ID : 6306801983939  
Option 3 ID : 6306801983938  
Option 4 ID : 6306801983937  
Status : Answered  
Chosen Option : 1

**Q.30** A sum of money becomes Rs. 4761 at a rate of 15% compounded annually for 2 years. The sum of money is.

- Ans**
- 1. Rs. 2700
  - 2. Rs. 3300
  - 3. Rs. 2300
  - 4. Rs. 3600

Question ID : 630680507608  
Option 1 ID : 6306801983874  
Option 2 ID : 6306801983875  
Option 3 ID : 6306801983873  
Option 4 ID : 6306801983876  
Status : Answered  
Chosen Option : 4

**Q.31** The table given below shows the selling price and cost price of five different articles

Article	Selling Price	Cost Price
Grinder	2500	2800
Iron	1800	1600
Lamp	900	1200
Induction	2000	2400
Fan	800	480

Find the discount percentage of Lamp.

- Ans**
- 1. 25%
  - 2. 75%
  - 3. 35%
  - 4. 15%

Question ID : 630680507610  
Option 1 ID : 6306801983883  
Option 2 ID : 6306801983881  
Option 3 ID : 6306801983882  
Option 4 ID : 6306801983884  
Status : Answered  
Chosen Option : 1

**Q.32** In a deck of 52 playing cards, there are 4 suits (hearts, diamonds, clubs, spades), each with cards numbered 2 through 10, and face cards (jack, queen, king) along with an ace. Consider drawing a single card from the deck. What is the probability of drawing a card with a number less than 5?

- Ans**
- 1.  $\frac{13}{4}$
  - 2.  $\frac{1}{4}$
  - 3.  $\frac{4}{13}$
  - 4.  $\frac{4}{5}$

Question ID : 630680507628

Option 1 ID : 6306801983954

Option 2 ID : 6306801983955

Option 3 ID : 6306801983953

Option 4 ID : 6306801983956

Status : Answered

Chosen Option : 3

**Q.33** A fraction becomes  $\frac{1}{3}$  when 2 is subtracted from the numerator and it becomes  $\frac{1}{5}$  when 8 is added to its denominator. The fraction obtained is:

- Ans**
- 1.  $\frac{2}{5}$
  - 2.  $\frac{5}{2}$
  - 3.  $\frac{1}{-3}$
  - 4.  $\frac{1}{3}$

Question ID : 630680507625

Option 1 ID : 6306801983943

Option 2 ID : 6306801983944

Option 3 ID : 6306801983942

Option 4 ID : 6306801983941

Status : Answered

Chosen Option : 3



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Q.34 The difference between two numbers is 300. If 6 % of one number is 15 % of the other number, then find the two numbers

- Ans
- 1. 400,700
  - 2. 100,400
  - 3. 500,800
  - 4. 200,500

Question ID : 630680507614  
Option 1 ID : 6306801983898  
Option 2 ID : 6306801983897  
Option 3 ID : 6306801983900  
Option 4 ID : 6306801983899  
Status : Answered  
Chosen Option : 4

Section : Intellectual Potential Test

Q.1 Select the correct option based on the statements and sequence of actions given below.

Statement: Dengue has engulfed the majority of the population in Delhi in the year-2023 and there has been cases of deaths also.

Courses of Action:

I. Precautionary measures should be taken every year before the onset of diseases in the form of fogging and awareness campaigns.

II. Medical facilities are also need to be upgraded as the diseases are changing their mutant variations and becoming more and more fatal.

- Ans
- 1. Only II follows
  - 2. Both I and II follow
  - 3. Neither I nor II follows
  - 4. Only I follows

Question ID : 630680507425  
Option 1 ID : 6306801983142  
Option 2 ID : 6306801983143  
Option 3 ID : 6306801983144  
Option 4 ID : 6306801983141  
Status : Answered  
Chosen Option : 2

Q.2 How is Rishav's father's wife's father's wife related to Rishav?

- Ans
- 1. Grandmother
  - 2. Aunty
  - 3. Mother
  - 4. Maternal grandmother

Question ID : 630680507407  
Option 1 ID : 6306801983071  
Option 2 ID : 6306801983069  
Option 3 ID : 6306801983070  
Option 4 ID : 6306801983072  
Status : Answered  
Chosen Option : 4

Q.3 If 'A' means 'multiplied by', 'B' means 'divided by', 'C' means 'minus' and 'D' means "plus", then what will be the value of following expression?

$$3 A 6 C 6 B 2 D 4 = ?$$

- Ans  1. 19  
 2. 21  
 3. 18  
 4. 20

Question ID : 630680507428  
Option 1 ID : 6306801983154  
Option 2 ID : 6306801983156  
Option 3 ID : 6306801983153  
Option 4 ID : 6306801983155  
Status : Answered  
Chosen Option : 1

Q.4 Read the given statement(s) and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statement(s).

Statements:

Some science are business.  
All business are sociology  
Some sociology are yoga

Conclusion:

I. Some yoga are business.  
II. Some sociology are business.  
III. Some sociology are science.  
IV. Some yoga are science.

- Ans  1. Only I and II  
 2. Only III and IV  
 3. Only I and IV  
 4. Only II and III



Question ID : 630680507409  
Option 1 ID : 6306801983077  
Option 2 ID : 6306801983079  
Option 3 ID : 6306801983080  
Option 4 ID : 6306801983078  
Status : Answered  
Chosen Option : 4

Q.5 Ravi is standing facing north and starts walking towards north from a point A and after walking 10 km he turns to his right and again walks 5 km and reaches a point B. From point B Ravi again turns to his left and walks 5 km and reaches another point C. From point C, Ravi again turns to his left and walks 5 km to reach point D and ends his journey. In which direction is Ravi standing from the point where he started his journey?

- Ans  1. South  
 2. East  
 3. West  
 4. North

Question ID : 630680507410  
Option 1 ID : 6306801983082  
Option 2 ID : 6306801983084  
Option 3 ID : 6306801983083  
Option 4 ID : 6306801983081  
Status : Answered  
Chosen Option : 4

Q.6 Which option will replace the question mark based on the country and its capital?

Bangladesh : Dhaka :: England : ?

- Ans
- 1. Lords
  - 2. London
  - 3. Thames city
  - 4. Sydney

Question ID : 630680507421  
Option 1 ID : 6306801983126  
Option 2 ID : 6306801983127  
Option 3 ID : 6306801983128  
Option 4 ID : 6306801983125  
Status : Answered  
Chosen Option : 2

Q.7 In a certain code language, FACE is written as GADE and ROSE is written as SOTE. How TIME will be written in the same code language?

- Ans
- 1. EMIT
  - 2. SILE
  - 3. TINE
  - 4. UINE

Question ID : 630680507405  
Option 1 ID : 6306801983064  
Option 2 ID : 6306801983063  
Option 3 ID : 6306801983062  
Option 4 ID : 6306801983061  
Status : Answered  
Chosen Option : 4

Q.8 Read the given statement(s) and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statement(s).

Statements:

Some Cobras are Rabbits.  
All baboons are tortoise.  
All Rabbits are Baboons.

Conclusions:

I. Some Cobras are baboons  
II. All baboons are rabbits  
III. All tortoise are cobras  
IV. All baboons are cobras

- Ans
- 1. Only IV
  - 2. Only II
  - 3. Only III
  - 4. Only I

Question ID : 630680507408  
Option 1 ID : 6306801983076  
Option 2 ID : 6306801983074  
Option 3 ID : 6306801983075  
Option 4 ID : 6306801983073  
Status : Answered  
Chosen Option : 4



Q.9 What will come in place of the question marks (?) to make the series given below logically complete?

37, 34, 38, 35, 39, 36, 40, ??

- Ans
- 1. 38, 42
  - 2. 42, 38
  - 3. 41, 37
  - 4. 37, 41

Question ID : 630680507430  
Option 1 ID : 6306801983163  
Option 2 ID : 6306801983164  
Option 3 ID : 6306801983161  
Option 4 ID : 6306801983162  
Status : Answered  
Chosen Option : 4

Q.10 How many such letters are there in the series which are immediately preceded by numbers?

7 S # 6 N @ 8 D # 5 % H ^ 6 B 8 & G 5 \$ 4 B @ 4 V 1 #

- Ans
- 1. 7
  - 2. 5
  - 3. 6
  - 4. 8

Question ID : 630680507415  
Option 1 ID : 6306801983103  
Option 2 ID : 6306801983101  
Option 3 ID : 6306801983102  
Option 4 ID : 6306801983104  
Status : Answered  
Chosen Option : 3

Q.11 If all the symbols are removed from the series, what will be the eleventh element from the left?

@ 8 M 6 B 4 # 7 N V % 6 ! H 8 # 3 J 5 V D 8 V & B 4 @

- Ans
- 1. J
  - 2. H
  - 3. 3
  - 4. 8

Question ID : 630680507411  
Option 1 ID : 6306801983088  
Option 2 ID : 6306801983087  
Option 3 ID : 6306801983085  
Option 4 ID : 6306801983086  
Status : Answered  
Chosen Option : 4

Q.12 Which of the following options is different from the other three options on the basis of cities and their respective states?

- Ans  1. Agra  
 2. Haridwar  
 3. Gorakhpur  
 4. Varanasi

Question ID : 630680507420  
Option 1 ID : 6306801983121  
Option 2 ID : 6306801983124  
Option 3 ID : 6306801983123  
Option 4 ID : 6306801983122  
Status : Answered  
Chosen Option : 2

Q.13 Which of the following options will replace the question mark?

1: 49 :: 2 : ?

- Ans  1. 81  
 2. 64  
 3. 36  
 4. 25

Question ID : 630680507431  
Option 1 ID : 6306801983168  
Option 2 ID : 6306801983165  
Option 3 ID : 6306801983166  
Option 4 ID : 6306801983167  
Status : Answered  
Chosen Option : 2

Q.14 If the rank of a boy in that group is 5th from the top and 18th from the bottom, then calculate the number of boys required in the group to make the total number of this group 40..

- Ans  1. 17  
 2. 20  
 3. 19  
 4. 18

Question ID : 630680507402  
Option 1 ID : 6306801983049  
Option 2 ID : 6306801983052  
Option 3 ID : 6306801983051  
Option 4 ID : 6306801983050  
Status : Answered  
Chosen Option : 4

Q.15 Which of the following options is different from the other three options?

- Ans
- 1. Kuchipudi
  - 2. Odissi
  - 3. Lavani
  - 4. Bharatanatyam

Question ID : 630680507419  
Option 1 ID : 6306801983118  
Option 2 ID : 6306801983119  
Option 3 ID : 6306801983117  
Option 4 ID : 6306801983120  
Status : Answered  
Chosen Option : 4

Q.16 Which of the following pair is similar to the expression given below?

354: 453

- Ans
- 1. 456: 356
  - 2. 726: 274
  - 3. 456: 870
  - 4. 733: 753

Question ID : 630680507432  
Option 1 ID : 6306801983169  
Option 2 ID : 6306801983170  
Option 3 ID : 6306801983172  
Option 4 ID : 6306801983171  
Status : Answered  
Chosen Option : 3

Q.17 In a certain code language, PARLE is written as APREL and APPLE is written as PAPEL.  
How MARCH will be written in the same code?

- Ans
- 1. HCRAM
  - 2. HCRMA
  - 3. AMHCR
  - 4. AMRHC

Question ID : 630680507406  
Option 1 ID : 6306801983067  
Option 2 ID : 6306801983068  
Option 3 ID : 6306801983065  
Option 4 ID : 6306801983066  
Status : Answered  
Chosen Option : 4

Q.18 If 'A' means 'multiplied by', 'B' means 'divided by', 'C' means 'minus' and 'D' means 'plus', then what will be the value of following expression?

6 A 7 C 26 B 13 D 8 =

- Ans
- 1. 45
  - 2. 47
  - 3. 46
  - 4. 48

Question ID : 630680507427  
Option 1 ID : 6306801983149  
Option 2 ID : 6306801983151  
Option 3 ID : 6306801983150  
Option 4 ID : 6306801983152  
Status : Answered  
Chosen Option : 4

Q.19 If 'A' means 'multiplied by', 'B' means 'divided by', 'C' means 'minus' and 'D' means 'plus', then what will be the value of following expression?

8 A 3 C 16 B 4 D 7 = ?

- Ans
- 1. 27
  - 2. 28
  - 3. 26
  - 4. 25

Question ID : 630680507426  
Option 1 ID : 6306801983145  
Option 2 ID : 6306801983148  
Option 3 ID : 6306801983146  
Option 4 ID : 6306801983147  
Status : Answered  
Chosen Option : 1

Q.20 Which among the following option is correct on the basis of the statements and conclusions given below(Statement is based on heights of 5 person namely Sunil,Rahul Rakesh,Vikash,Mansi)?

Statement :- Sunil>Rahul>Rakesh>Vikash>Mansi

Conclusion I:- Sunil is the shortest.

Conclusion II:- Mansi is taller than Sunil

- Ans
- 1. Neither conclusion I nor II
  - 2. Only II conclusion follow
  - 3. Both conclusion I and II
  - 4. Only I conclusion follow

Question ID : 630680507417  
Option 1 ID : 6306801983112  
Option 2 ID : 6306801983110  
Option 3 ID : 6306801983111  
Option 4 ID : 6306801983109  
Status : Answered  
Chosen Option : 1

Q.21 Which of the following options is different from the other three options?

- Ans  1. Onion  
 2. Potato  
 3. Brinjal  
 4. Apple

Question ID : 630680507418  
Option 1 ID : 6306801983114  
Option 2 ID : 6306801983113  
Option 3 ID : 6306801983116  
Option 4 ID : 6306801983115  
Status : Answered  
Chosen Option : 4

Q.22 On the basis of the statement given below, identify the total amount spent by a college in a year.

Statement I:- The College sold 10 articles worth Rs 200 in a year.  
Statement II:- The College sold 20 Pens worth total Rs 20 in a year.

- Ans  1. Only statement II is required to answer.  
 2. Both the statements are insufficient to answer.  
 3. Both Statement I and Statement II are required to answer the question.  
 4. Only statement I is required to answer.

Question ID : 630680507422  
Option 1 ID : 6306801983131  
Option 2 ID : 6306801983132  
Option 3 ID : 6306801983130  
Option 4 ID : 6306801983129  
Status : Answered  
Chosen Option : 2

Q.23 How many such symbols are there in the series which are immediately preceded by numbers?

6 V B 4 # 7 2 H ! 5 @ 6 C 7 M # 5 H 6 # D 5 \$ B 9 # 6 J

- Ans  1. 6  
 2. 3  
 3. 4  
 4. 5

Question ID : 630680507414  
Option 1 ID : 6306801983100  
Option 2 ID : 6306801983097  
Option 3 ID : 6306801983098  
Option 4 ID : 6306801983099  
Status : Answered  
Chosen Option : 4

Q.24 If  $P > Q > R > S > T > U > V$ , then which among the following is biggest in this series?

- Ans
- 1. Q
  - 2. V
  - 3. U
  - 4. P

Question ID : 630680507416  
Option 1 ID : 6306801983107  
Option 2 ID : 6306801983106  
Option 3 ID : 6306801983105  
Option 4 ID : 6306801983108  
Status : Answered  
Chosen Option : 4

Q.25 In a class with total 32 students, Vimla's rank from the top is 16. Find Vimla's rank from the bottom?

- Ans
- 1. 18
  - 2. 17
  - 3. 20
  - 4. 19

Question ID : 630680507403  
Option 1 ID : 6306801983055  
Option 2 ID : 6306801983056  
Option 3 ID : 6306801983053  
Option 4 ID : 6306801983054  
Status : Answered  
Chosen Option : 2

Q.26 5 friends namely Abhishek, Binodni, Rati, Kush and Priya are sitting in a straight line facing north. Abhishek is sitting on the extreme left side. Binodni is sitting immediately after Abhishek. Kush is sitting exactly between Binodni and Priya. If Priya is sitting immediately before Rati, then who is sitting in the middle of the line?

- Ans
- 1. Abhishek
  - 2. Priya
  - 3. Kush
  - 4. Binodni

Question ID : 630680507400  
Option 1 ID : 6306801983041  
Option 2 ID : 6306801983044  
Option 3 ID : 6306801983043  
Option 4 ID : 6306801983042  
Status : Answered  
Chosen Option : 3



Q.27 If all the letters are removed from the series, what will be the ninth element from the right?

% 6 ! H 8 \* 6 k 9 F ! A # 5 @ 6 C 7 M # 5 H % 6 G B # 9

- Ans
- 1. 5
  - 2. @
  - 3. 7
  - 4. 6

Question ID : 630680507413  
Option 1 ID : 6306801983093  
Option 2 ID : 6306801983095  
Option 3 ID : 6306801983096  
Option 4 ID : 6306801983094  
Status : Answered  
Chosen Option : 2

Q.28 What will come in place of the question marks (?) to make the series given below logically complete?

43, 48, 41, 46, 39, 44, 37, ??

- Ans
- 1. 45, 38
  - 2. 42, 35
  - 3. 38, 45
  - 4. 35, 42

Question ID : 630680507429  
Option 1 ID : 6306801983158  
Option 2 ID : 6306801983159  
Option 3 ID : 6306801983157  
Option 4 ID : 6306801983160  
Status : Answered  
Chosen Option : 2

Q.29 Which of the following pair is similar to the expression given below?

14 : 21 : 28

- Ans
- 1. 7 : 13 : 19
  - 2. 5 : 15 : 21
  - 3. 13 : 23 : 33
  - 4. 6 : 14 : 23

Question ID : 630680507433  
Option 1 ID : 6306801983174  
Option 2 ID : 6306801983176  
Option 3 ID : 6306801983173  
Option 4 ID : 6306801983175  
Status : Not Answered  
Chosen Option : --

Q.30 How many symbols are there in the series which are followed by letters?

J # D 4 \$ 8 M ^ 6 V B 4 # 7 6 Z ^ B 4 M @ 6 B 4 # N 7 &

- Ans
- 1. 6
  - 2. 5
  - 3. 3
  - 4. 4

Question ID : 630680507412  
Option 1 ID : 6306801983092  
Option 2 ID : 6306801983091  
Option 3 ID : 6306801983089  
Option 4 ID : 6306801983090  
Status : Answered  
Chosen Option : 3

Q.31 What will come in the place of question marks (??) to make the following series logically complete?

AC 21, EG 24, IK 27, MO 30 ??

- Ans
- 1. SR 33
  - 2. QS 33
  - 3. RS 33
  - 4. SQ 33

Question ID : 630680507423  
Option 1 ID : 6306801983136  
Option 2 ID : 6306801983134  
Option 3 ID : 6306801983135  
Option 4 ID : 6306801983133  
Status : Answered  
Chosen Option : 2

Q.32 Rank of Bindiya is five from the top and 24 from the bottom of the list that shows qualified candidates. Find the total number of qualified candidates.

- Ans
- 1. 26
  - 2. 27
  - 3. 29
  - 4. 28

Question ID : 630680507404  
Option 1 ID : 6306801983057  
Option 2 ID : 6306801983058  
Option 3 ID : 6306801983060  
Option 4 ID : 6306801983059  
Status : Answered  
Chosen Option : 4



Q.33 5 friends s namely Abhishek, Binodni, Rati, Kush and Priya are sitting in a straight line facing north. Abishek is sitting on the extreme left side. Binodni is sitting immediately after Abhishek. Kush is sitting exactly between Binodni and Priya. If Priya is sitting immediately before Rati, then who is sitting at the extreme right-hand side of the line?

- Ans
- 1. Binodni
  - 2. Abhishek
  - 3. Rati
  - 4. Kush

Question ID : 630680507401  
Option 1 ID : 6306801983046  
Option 2 ID : 6306801983045  
Option 3 ID : 6306801983048  
Option 4 ID : 6306801983047  
Status : Answered  
Chosen Option : 3

Q.34 Select the correct option based on the statements and sequence of actions given below.  
Statement: A group of ten students caught doing ragging of a junior student in a college.

Courses of Action:

- I. The rules of the ragging should be strictly implemented by the management authorities of the college.
- II. Management authorities should also conduct research why students do ragging.

- Ans
- 1. Both I and II follows
  - 2. Only II follow
  - 3. Neither I nor II follows
  - 4. Only I follow

Question ID : 630680507424  
Option 1 ID : 6306801983139  
Option 2 ID : 6306801983138  
Option 3 ID : 6306801983140  
Option 4 ID : 6306801983137  
Status : Answered  
Chosen Option : 1

Section : Domain Knowledge

Q.1 Which of the following statement is correct regarding PERT in construction management?

- I. PERT is a network planning models
- II. PERT is named as program evaluation and review technique

- Ans
- 1. Neither I nor II
  - 2. Both I and II
  - 3. Only I
  - 4. Only II

Question ID : 630680506876  
Option 1 ID : 6306801981012  
Option 2 ID : 6306801981011  
Option 3 ID : 6306801981009  
Option 4 ID : 6306801981010  
Status : Answered  
Chosen Option : 2

Q.2 Reduced bearing of any line is ' $\theta$ ' and length is ' $l$ ', then what will be the latitude of line?

- Ans
- 1.  $L = -l \tan\theta$
  - 2.  $L = +l \sin\theta$
  - 3.  $L = +l \cos\theta$
  - 4.  $L = -l \cot\theta$

Question ID : 630680506934  
Option 1 ID : 6306801981243  
Option 2 ID : 6306801981241  
Option 3 ID : 6306801981242  
Option 4 ID : 6306801981244  
Status : Answered  
Chosen Option : 3

Q.3 A rectangular bar of cross-sectional area  $20000 \text{ mm}^2$  is subjected to an axial load of 30 kN, section is inclined at an angle of  $45^\circ$  with normal cross-section of the bar, what will be the shear stress on a section?

- Ans
- 1.  $0.75 \text{ N/mm}^2$
  - 2.  $0.95 \text{ N/mm}^2$
  - 3.  $0.65 \text{ N/mm}^2$
  - 4.  $0.45 \text{ N/mm}^2$

Question ID : 630680506867  
Option 1 ID : 6306801980974  
Option 2 ID : 6306801980973  
Option 3 ID : 6306801980975  
Option 4 ID : 6306801980976  
Status : Answered  
Chosen Option : 1

Q.4 If the velocity gradient of a fluid is  $24000 \text{ sec}^{-1}$ , force required to move a fluid between plate is  $3 \text{ N/m}^2$ , what will be the fluid viscosity between the plates?

- Ans
- 1.  $1.25 \times 10^{-4} \frac{\text{Ns}}{\text{m}^2}$
  - 2.  $1.93 \times 10^{-4} \frac{\text{Ns}}{\text{m}^2}$
  - 3.  $1.97 \times 10^{-5} \frac{\text{Ns}}{\text{m}^2}$
  - 4.  $2.67 \times 10^{-3} \frac{\text{Ns}}{\text{m}^2}$

Question ID : 630680506899  
Option 1 ID : 6306801981101  
Option 2 ID : 6306801981104  
Option 3 ID : 6306801981102  
Option 4 ID : 6306801981103  
Status : Answered  
Chosen Option : 1

Q.5 Which of the following statement is correct regarding camber in road design?

I. Camber is the slope provided to the road surface in the transverse direction

II. The purpose of camber to drain off the rain water from the road surface

- Ans
- 1. Only I
  - 2. Both I and II
  - 3. Neither I nor II
  - 4. Only II

Question ID : 630680506919  
Option 1 ID : 6306801981181  
Option 2 ID : 6306801981183  
Option 3 ID : 6306801981184  
Option 4 ID : 6306801981182  
Status : Answered  
Chosen Option : 2

Q.6 The statistical methods are used to determine the bacterial density that has the maximum probability with the given set of constants, which represent as \_\_\_\_\_.

- Ans
- 1. MPN
  - 2. SPN
  - 3. BOD
  - 4. COD

Question ID : 630680506909  
Option 1 ID : 6306801981141  
Option 2 ID : 6306801981144  
Option 3 ID : 6306801981142  
Option 4 ID : 6306801981143  
Status : Answered  
Chosen Option : 1

Q.7 In sieve analysis, the portion of soil sample retained on sieve (+4.75 mm size) is termed as the \_\_\_\_\_.

- Ans
- 1. Sieve fraction
  - 2. Sedimentation fraction
  - 3. Aperture fraction
  - 4. Gravel fraction

Question ID : 630680506886  
Option 1 ID : 6306801981052  
Option 2 ID : 6306801981051  
Option 3 ID : 6306801981049  
Option 4 ID : 6306801981050  
Status : Answered  
Chosen Option : 4

Q.8 Which of the following is type of false ceiling in building?

I. Aluminum frame ceiling

II. Concrete frame ceiling

- Ans
- 1. Both I and II
  - 2. Only I
  - 3. Only II
  - 4. Neither I nor II

Question ID : 630680506940

Option 1 ID : 6306801981267

Option 2 ID : 6306801981265

Option 3 ID : 6306801981266

Option 4 ID : 6306801981268

Status : Answered

Chosen Option : 2

Q.9 Which of the following is correct equation of Weber's number ( $W_e$ )? (where  $F_i$  = inertia force,  $F_s$  = surface tension force)

- Ans
- 1.  $W_e = \frac{F_i}{F_s}$
  - 2.  $W_e = F_i \cdot F_s$
  - 3.  $W_e = \sqrt{\frac{F_i^2}{F_s^2}}$
  - 4.  $W_e = \sqrt{\frac{F_i}{F_s}}$



Question ID : 630680506903

Option 1 ID : 6306801981117

Option 2 ID : 6306801981120

Option 3 ID : 6306801981119

Option 4 ID : 6306801981118

Status : Answered

Chosen Option : 4

Q.10 Which of the following statement is correct regarding assumption of 'limit state of collapse' in RCC design?

- I. The tensile strength of the concrete is ignored
- II. For design purposes the partial safety factor  $\gamma_m$ , equal to 1.75 shall be applied

- Ans
- 1. Only I
  - 2. Only II
  - 3. Both I and II
  - 4. Neither I nor II

Question ID : 630680506880  
Option 1 ID : 6306801981025  
Option 2 ID : 6306801981026  
Option 3 ID : 6306801981027  
Option 4 ID : 6306801981028  
Status : Answered  
Chosen Option : 1

Q.11 The turbidity of water depends upon the which of the following factor?

- I. Fineness of particles present in water
- II. Concentration of particles present in water

- Ans
- 1. Only II
  - 2. Both I and II
  - 3. Only I
  - 4. Neither I nor II

Question ID : 630680506907  
Option 1 ID : 6306801981134  
Option 2 ID : 6306801981135  
Option 3 ID : 6306801981133  
Option 4 ID : 6306801981136  
Status : Answered  
Chosen Option : 2

Q.12 The ratio of shear stress to the corresponding shear strain with in the elastic limit is known as \_\_\_\_\_.

- I. Modulus of rigidity
- II. Shear modulus

- Ans
- 1. Both I and II
  - 2. Neither I nor II
  - 3. Only II
  - 4. Only I

Question ID : 630680506862  
Option 1 ID : 6306801980955  
Option 2 ID : 6306801980956  
Option 3 ID : 6306801980954  
Option 4 ID : 6306801980953  
Status : Answered  
Chosen Option : 1

Q.13 What is the value of camber recommended by the IRC for high type bituminous surface in heavy rain fall area?

- Ans
- 1. 1 in 50
  - 2. 1 in 40
  - 3. 1 in 33
  - 4. 1 in 25

Question ID : 630680506923  
Option 1 ID : 6306801981197  
Option 2 ID : 6306801981200  
Option 3 ID : 6306801981199  
Option 4 ID : 6306801981198  
Status : Answered  
Chosen Option : 3

Q.14 Which of the following material can be used for formwork?

- I. Timber
- II. Steel
- III. Plywood

- Ans
- 1. I, II and III
  - 2. Only I and III
  - 3. Only II and III
  - 4. Only I and II

Question ID : 630680506937  
Option 1 ID : 6306801981256  
Option 2 ID : 6306801981255  
Option 3 ID : 6306801981254  
Option 4 ID : 6306801981253  
Status : Answered  
Chosen Option : 4

Q.15 Ratio of map distance to the corresponding ground distance is independent of unit of measurement and it is called \_\_\_\_\_.

- Ans
- 1. Numerical scales
  - 2. Representative fraction
  - 3. Engineer's scale
  - 4. Plan

Question ID : 630680506931  
Option 1 ID : 6306801981230  
Option 2 ID : 6306801981231  
Option 3 ID : 6306801981232  
Option 4 ID : 6306801981229  
Status : Answered  
Chosen Option : 2

Q.16 A \_\_\_\_\_ is an error that, under the same conditions, will always be of the same size and sign.

- Ans
- 1. Compensating errors
  - 2. Cumulative error
  - 3. Mistakes
  - 4. Accidental errors

Question ID : 630680506930  
Option 1 ID : 6306801981225  
Option 2 ID : 6306801981227  
Option 3 ID : 6306801981228  
Option 4 ID : 6306801981226  
Status : Answered  
Chosen Option : 2

Q.17 \_\_\_\_\_ can be defined as time dependent increase in strain of a solid body under constant or controlled stress.

- Ans
- 1. Shrinkage
  - 2. Compaction
  - 3. Creep
  - 4. Elasticity

Question ID : 630680506874  
Option 1 ID : 6306801981003  
Option 2 ID : 6306801981004  
Option 3 ID : 6306801981002  
Option 4 ID : 6306801981001  
Status : Answered  
Chosen Option : 3

Q.18 Arrange the steps of 'DOE method of concrete mix design' from first to last.

- I. Find the target mean strength from the specified characteristic strength
- II. Calculate the water/cement ratio
- III. Find the cement content knowing the water/cement ratio and water content
- IV. Proportion of fine aggregate is determined in total aggregate
- V. Find out the total aggregate content
- VI. Decide water content for the required workability, expressed in terms of slump or vebe time

- Ans
- 1. I, IV, VI, V, III, II
  - 2. II, V, VI, IV, III, I
  - 3. II, IV, V, III, VI, I
  - 4. I, II, VI, III, V, IV

Question ID : 630680506871  
Option 1 ID : 6306801980989  
Option 2 ID : 6306801980992  
Option 3 ID : 6306801980990  
Option 4 ID : 6306801980991  
Status : Not Answered  
Chosen Option : --

Q.19 In Bernoulli's equation  $\frac{p}{\rho g} + \frac{v^2}{2g} + z = \text{constant}$ ,  $\frac{v^2}{2g}$  represent \_\_\_\_\_.

- Ans
- 1. pressure head
  - 2. potential head
  - 3. datum head
  - 4. kinetic head

Question ID : 630680506900  
Option 1 ID : 6306801981107  
Option 2 ID : 6306801981106  
Option 3 ID : 6306801981108  
Option 4 ID : 6306801981105  
Status : Answered  
Chosen Option : 4

Q.20 According to IS456: 2000, the maximum compressive strain in concrete in axial compression is taken as \_\_\_\_\_, in limit state of collapse.

- Ans
- 1. 0.004
  - 2. 0.002
  - 3. 0.009
  - 4. 0.003

Question ID : 630680506881  
Option 1 ID : 6306801981030  
Option 2 ID : 6306801981029  
Option 3 ID : 6306801981031  
Option 4 ID : 6306801981032  
Status : Answered  
Chosen Option : 2

Q.21 Which of the following statement is correct regarding 'working from whole to part'?

- I. The idea of working from whole to part prevent the accumulation of errors
- II. Working from whole to part control and localise minor errors

- Ans
- 1. Both I and II
  - 2. Neither I nor II
  - 3. Only I
  - 4. Only II

Question ID : 630680506929  
Option 1 ID : 6306801981223  
Option 2 ID : 6306801981224  
Option 3 ID : 6306801981221  
Option 4 ID : 6306801981222  
Status : Answered  
Chosen Option : 1



Q.22 Which of the following is NOT the type of transverse joint in rigid pavement?

- Ans
- 1. Construction joints
  - 2. Warping joints
  - 3. Contraction joints
  - 4. Expansion joints

Question ID : 630680506926  
Option 1 ID : 6306801981211  
Option 2 ID : 6306801981212  
Option 3 ID : 6306801981209  
Option 4 ID : 6306801981210  
Status : Answered  
Chosen Option : 1

Q.23 \_\_\_\_\_ is a colourless, odourless and toxic gas, produced when organic materials like natural gas coal or wood are incompletely burnt.

- Ans
- 1. Sulphur di oxide
  - 2. Carbon monoxide
  - 3. Carbon di oxide
  - 4. Nitrogen di oxide

Question ID : 630680506918  
Option 1 ID : 6306801981178  
Option 2 ID : 6306801981179  
Option 3 ID : 6306801981177  
Option 4 ID : 6306801981180  
Status : Answered  
Chosen Option : 2

Q.24 Which of the following statement is correct regarding triaxial test equipment in soil testing?

- I. The test equipment specially consists of a high pressure cylindrical cell
- II. Cylindrical cell is fitted between the base and the top cap

- Ans
- 1. Both I and II
  - 2. Neither I nor II
  - 3. Only I
  - 4. Only II

Question ID : 630680506893  
Option 1 ID : 6306801981079  
Option 2 ID : 6306801981080  
Option 3 ID : 6306801981077  
Option 4 ID : 6306801981078  
Status : Answered  
Chosen Option : 1

Q.25 As per IS456: 2000, the minimum number of longitudinal bars provided in a column shall be \_\_\_\_\_ in rectangular column and \_\_\_\_\_ in circular columns.

- Ans
- 1. 7, 4
  - 2. 3, 5
  - 3. 4, 6
  - 4. 4, 8

Question ID : 630680506882  
Option 1 ID : 6306801981034  
Option 2 ID : 6306801981035  
Option 3 ID : 6306801981033  
Option 4 ID : 6306801981036  
Status : Answered  
Chosen Option : 3

Q.26 Which of the following is type of filter in purification of water?

- I. Slow sand filter
- II. Rapid sand filter
- III. Pressure filter

- Ans
- 1. I, II and III
  - 2. Only I and III
  - 3. Only II and III
  - 4. Only I and II

Question ID : 630680506911  
Option 1 ID : 6306801981152  
Option 2 ID : 6306801981151  
Option 3 ID : 6306801981150  
Option 4 ID : 6306801981149  
Status : Answered  
Chosen Option : 1

Q.27 In the context of painting of new woodwork, which of the following is the process of sealing the knots by suitable means so that the resin from the knots may not destroy the paint film by way of cracking, peeling or brown discoloration?

- Ans
- 1. Stopping
  - 2. Priming
  - 3. Finishing
  - 4. Knotting

Question ID : 630680506941  
Option 1 ID : 6306801981271  
Option 2 ID : 6306801981270  
Option 3 ID : 6306801981269  
Option 4 ID : 6306801981272  
Status : Answered  
Chosen Option : 2

Q.28 Which of the following is disinfection method of water treatment?

I. Boiling of water

II. Treatment with ozone

- Ans
- 1. Only II
  - 2. Neither I nor II
  - 3. Both I and II
  - 4. Only I

Question ID : 630680506913

Option 1 ID : 6306801981158

Option 2 ID : 6306801981160

Option 3 ID : 6306801981159

Option 4 ID : 6306801981157

Status : Answered

Chosen Option : 3

Q.29 The pressure gradient at the exit at which the upward force is just equal to the submerged weight of the soil is called \_\_\_\_\_.

- Ans
- 1. Upward gradient
  - 2. Submerged gradient
  - 3. Critical gradient
  - 4. Disturbed gradient

Question ID : 630680506891

Option 1 ID : 6306801981071

Option 2 ID : 6306801981070

Option 3 ID : 6306801981069

Option 4 ID : 6306801981072

Status : Answered

Chosen Option : 3

Q.30 As per IS456: 2000, what is the value of  $\frac{x_{u\max}}{d}$  for Fe 415 steel?

- Ans
- 1. 0.364
  - 2. 0.479
  - 3. 0.459
  - 4. 0.531

Question ID : 630680506878

Option 1 ID : 6306801981020

Option 2 ID : 6306801981018

Option 3 ID : 6306801981019

Option 4 ID : 6306801981017

Status : Answered

Chosen Option : 2

Q.31 If the height of a hollow cone is 10 m, what will the distance of center of gravity from its vertex?

- Ans
- 1. 5.78 m
  - 2. 9.65 m
  - 3. 6.67 m
  - 4. 3.57 m

Question ID : 630680506859  
Option 1 ID : 6306801980943  
Option 2 ID : 6306801980944  
Option 3 ID : 6306801980942  
Option 4 ID : 6306801980941  
Status : Not Answered  
Chosen Option : --

Q.32 For a right circular solid cone, the distance of center of gravity from the base is \_\_\_\_\_. (where h = height of solid cone)

- Ans
- 1.  $\frac{3}{5}h$
  - 2.  $\frac{1}{6}h$
  - 3.  $\frac{3}{4}h$
  - 4.  $\frac{1}{4}h$

Question ID : 630680506858  
Option 1 ID : 6306801980939  
Option 2 ID : 6306801980940  
Option 3 ID : 6306801980937  
Option 4 ID : 6306801980938  
Status : Answered  
Chosen Option : 4

Q.33 Which of the following statement is correct regarding critical depth ( $h_c$ )?

- I. Critical depth is defined as that depth of flow of water at which the specific energy is maximum
- II. The mathematical expression of critical depth is obtained by differentiating the specific energy equation with respect to depth of flow

- Ans
- 1. Both I and II
  - 2. Only II
  - 3. Neither I nor II
  - 4. Only I

Question ID : 630680506904  
Option 1 ID : 6306801981123  
Option 2 ID : 6306801981122  
Option 3 ID : 6306801981124  
Option 4 ID : 6306801981121  
Status : Answered  
Chosen Option : 2

Q.34 \_\_\_\_\_ is designed for the projects involving many activities with on-time completion.

Ans  1. Critical path method

2. IS code method

3. DOE method

4. Rankine's method

Question ID : 630680506877

Option 1 ID : 6306801981013

Option 2 ID : 6306801981014

Option 3 ID : 6306801981016

Option 4 ID : 6306801981015

Status : Answered

Chosen Option : 1

Q.35 Sedimentation analysis is used when the soil fraction is finer than \_\_\_\_\_.

Ans  1. 85  $\mu$  size

2. 95 $\mu$  size

3. 100  $\mu$  size

4. 75 $\mu$  size

Question ID : 630680506887

Option 1 ID : 6306801981056

Option 2 ID : 6306801981054

Option 3 ID : 6306801981053

Option 4 ID : 6306801981055

Status : Answered

Chosen Option : 4

Q.36 In the context of standard penetration test, what is the relation between  $N$  and  $N_o$  during correction for overburden?

(where  $N$  = actual value of penetration resistance;  $N_o$  = corrected value of penetration resistance;  $C_n$  = normalising correction factor)

Ans  1.  $N_o = C_n \cdot N$

2.  $N_o = C_n \cdot N^2$

3.  $N_o = C_n + N$

4.  $N_o = \frac{C_n}{N}$

Question ID : 630680506895

Option 1 ID : 6306801981086

Option 2 ID : 6306801981088

Option 3 ID : 6306801981087

Option 4 ID : 6306801981085

Status : Answered

Chosen Option : 1

Q.37 The process of passing the water through the beds of granular materials is known as \_\_\_\_\_.

- Ans
- 1. Filtration
  - 2. Chlorination
  - 3. Infiltration
  - 4. Disinfection

Question ID : 630680506910  
Option 1 ID : 6306801981146  
Option 2 ID : 6306801981145  
Option 3 ID : 6306801981147  
Option 4 ID : 6306801981148  
Status : Answered  
Chosen Option : 1

Q.38 Which of the following statement is correct regarding negative skin friction?

I. Negative skin friction is a downward drag acting on a pile due to the downward movement of the surrounding compressible soil relative to the pile

II. The magnitude of negative friction for granular soil is 'p.c.L<sub>f</sub>' (where p = perimeter of the pile, c = cohesion of soil in zone of L<sub>f</sub>, L<sub>f</sub> = depth of fill or soil which is moving vertically)

- Ans
- 1. Only II
  - 2. Both I and II
  - 3. Only I
  - 4. Neither I nor II

Question ID : 630680506897  
Option 1 ID : 6306801981094  
Option 2 ID : 6306801981095  
Option 3 ID : 6306801981093  
Option 4 ID : 6306801981096  
Status : Answered  
Chosen Option : 2

Q.39 Which of the following statement is correct regarding 'Air quality index'?

I. The Air Quality index is also referred as the Pollutant Standard Index

II. Air quality index is a number used by the air quality monitoring agencies to inform the public about the quality of air in their vicinity

- Ans
- 1. Only II
  - 2. Both I and II
  - 3. Neither I nor II
  - 4. Only I

Question ID : 630680506916  
Option 1 ID : 6306801981170  
Option 2 ID : 6306801981171  
Option 3 ID : 6306801981172  
Option 4 ID : 6306801981169  
Status : Answered  
Chosen Option : 2

Q.40 A cylinder of soil fails under an axial vertical stress of  $140 \text{ kN/m}^2$ , when it is laterally unconfined, the failure plane makes an angle of  $45^\circ$  with the horizontal. What will be the value of cohesion of soil sample?

- Ans
- 1.  $60 \text{ kN/m}^2$
  - 2.  $80 \text{ kN/m}^2$
  - 3.  $70 \text{ kN/m}^2$
  - 4.  $50 \text{ kN/m}^2$

Question ID : 630680506894  
Option 1 ID : 6306801981083  
Option 2 ID : 6306801981081  
Option 3 ID : 6306801981082  
Option 4 ID : 6306801981084  
Status : Answered  
Chosen Option : 3

Q.41 Ribbed bolts are also known as \_\_\_\_\_.

- Ans
- 1. Turned bolts
  - 2. Fluted bolts
  - 3. Unfinished bolts
  - 4. High strength bolts

Question ID : 630680506884  
Option 1 ID : 6306801981041  
Option 2 ID : 6306801981043  
Option 3 ID : 6306801981042  
Option 4 ID : 6306801981044  
Status : Not Answered  
Chosen Option : --

Q.42 Which of the following statement is correct regarding 'Plywood'?

I. A wood panel glued under pressure from an odd number of layers of veneers is known as plywood

II. BWR grade and MR grade is classification of plywood based on grade

- Ans
- 1. Only I
  - 2. Only II
  - 3. Neither I nor II
  - 4. Both I and II

Question ID : 630680506935  
Option 1 ID : 6306801981245  
Option 2 ID : 6306801981246  
Option 3 ID : 6306801981248  
Option 4 ID : 6306801981247  
Status : Not Answered  
Chosen Option : --

Q.43 Stopping distance depends on which of the following factor?

I. Efficiency of brakers

II. Speed of vehicle

III. Total reaction time of driver

Ans

✓ 1. I, II and III

✗ 2. Only I and II

✗ 3. Only II and III

✗ 4. Only I and III

Question ID : 630680506921

Option 1 ID : 6306801981192

Option 2 ID : 6306801981189

Option 3 ID : 6306801981190

Option 4 ID : 6306801981191

Status : Answered

Chosen Option : 3

Q.44 In the context of water distribution system, which of the following is also known as tree system?

Ans

✗ 1. Ring system

✗ 2. Radial system

✓ 3. Dead end system

✗ 4. Grid iron system

Question ID : 630680506912

Option 1 ID : 6306801981155

Option 2 ID : 6306801981156

Option 3 ID : 6306801981153

Option 4 ID : 6306801981154

Status : Answered

Chosen Option : 2

Q.45 Which of the following type of leveling is also known as fly leveling?

Ans

✗ 1. Cross-sectioning

✗ 2. Precise leveling

✓ 3. Differential leveling

✗ 4. Profile leveling

Question ID : 630680506932

Option 1 ID : 6306801981234

Option 2 ID : 6306801981236

Option 3 ID : 6306801981235

Option 4 ID : 6306801981233

Status : Answered

Chosen Option : 3



Q.46 The analysis of a two way slab is done using which of the following method?

I. Marcus's method

II. Pigeaud's method

- Ans
- 1. Only II
  - 2. Neither I nor II
  - 3. Both I and II
  - 4. Only I

Question ID : 630680506883  
Option 1 ID : 6306801981038  
Option 2 ID : 6306801981040  
Option 3 ID : 6306801981039  
Option 4 ID : 6306801981037  
Status : Answered  
Chosen Option : 3

Q.47 As per BIS (Bureau of Indian standards), the aggregate impact testing machine consists of a metal base and a cylindrical steel cup of internal diameter \_\_\_\_\_ and depth \_\_\_\_\_ in which the aggregate specimen is placed.

- Ans
- 1. 102 mm, 40 mm
  - 2. 102 mm, 50 mm
  - 3. 90 mm, 50 mm
  - 4. 150 mm, 60 mm

Question ID : 630680506928  
Option 1 ID : 6306801981218  
Option 2 ID : 6306801981220  
Option 3 ID : 6306801981217  
Option 4 ID : 6306801981219  
Status : Not Answered  
Chosen Option : --

Q.48 Water proofing material should have which of the following properties?

- Ans
- 1. It should be dimensionally unstable
  - 2. It should be subjected with deliquescent salts
  - 3. It should be strong and durable
  - 4. It should be pervious

Question ID : 630680506939  
Option 1 ID : 6306801981262  
Option 2 ID : 6306801981263  
Option 3 ID : 6306801981264  
Option 4 ID : 6306801981261  
Status : Answered  
Chosen Option : 3

Q.49 Which of the following type of stresses is produced due to temperature variation in concrete pavement?

I. Warping stresses

II. Frictional stresses

- Ans
- 1. Both I and II
  - 2. Neither I nor II
  - 3. Only I
  - 4. Only II

Question ID : 630680506927  
Option 1 ID : 6306801981215  
Option 2 ID : 6306801981216  
Option 3 ID : 6306801981213  
Option 4 ID : 6306801981214  
Status : Answered  
Chosen Option : 1

Q.50 The ratio of plastic moment ' $M_p$ ' of a member by yield strength ' $\sigma_y$ ' of its material is called \_\_\_\_\_.

- Ans
- 1. Semi plastic section modulus
  - 2. Elastoplastic section modulus
  - 3. Plastic section modulus
  - 4. Elastic section modulus

Question ID : 630680506885  
Option 1 ID : 6306801981048  
Option 2 ID : 6306801981047  
Option 3 ID : 6306801981045  
Option 4 ID : 6306801981046  
Status : Answered  
Chosen Option : 3

Q.51 Which of the following statement is correct regarding the CBR test in highway engineering?

I. The CBR test is an empirical penetration test

II. The CBR test is carried out in the laboratory on soil specimens compacted to desired density and soaked in water

- Ans
- 1. Neither I nor II
  - 2. Only II
  - 3. Only I
  - 4. Both I and II

Question ID : 630680506925  
Option 1 ID : 6306801981208  
Option 2 ID : 6306801981206  
Option 3 ID : 6306801981205  
Option 4 ID : 6306801981207  
Status : Not Answered  
Chosen Option : --

Q.52 When overtaking sight distance cannot be provided, \_\_\_\_\_ is provided to give limited overtaking opportunities to fast vehicles.

- Ans
- 1. head light sight distance
  - 2. stopping sight distance
  - 3. safe overtaking sight distance
  - 4. intermediate sight distance

Question ID : 630680506920  
Option 1 ID : 6306801981185  
Option 2 ID : 6306801981187  
Option 3 ID : 6306801981188  
Option 4 ID : 6306801981186  
Status : Answered  
Chosen Option : 4

Q.53 As per IS456: 2000, what is period of removal of props to beam and arches which is spanning upto 6 m?

- Ans
- 1. 21 days
  - 2. 7 days
  - 3. 3 days
  - 4. 14 days

Question ID : 630680506942  
Option 1 ID : 6306801981273  
Option 2 ID : 6306801981275  
Option 3 ID : 6306801981276  
Option 4 ID : 6306801981274  
Status : Answered  
Chosen Option : 2

Q.54 Which of the following method is used to determine in-situ density of soil?

I. Sand replacement method

II. Core cutter method

- Ans
- 1. Neither I nor II
  - 2. Only I
  - 3. Both I and II
  - 4. Only II

Question ID : 630680506888  
Option 1 ID : 6306801981060  
Option 2 ID : 6306801981057  
Option 3 ID : 6306801981059  
Option 4 ID : 6306801981058  
Status : Answered  
Chosen Option : 3

Q.55 In the context of soil classification system, what is the A-line equation in Casagrande's plasticity chart? (where,  $I_p$  = plasticity index  $w_L$  = liquid limit)

- Ans
- 1.  $I_p = 0.79 (w_L - 20)$
  - 2.  $I_p = 0.89 (w_L + 30)$
  - 3.  $I_p = 0.73 (w_L - 20)$
  - 4.  $I_p = 0.56 (w_L - 20)$

Question ID : 630680506890  
Option 1 ID : 6306801981065  
Option 2 ID : 6306801981068  
Option 3 ID : 6306801981066  
Option 4 ID : 6306801981067  
Status : Answered  
Chosen Option : 3

Q.56 A solid shaft of 'D' mm diameter is used to transmit torque, if maximum shear stress induced to the shaft is ' $\tau$ ' N/mm<sup>2</sup>, what will the maximum torque transmitted by the shaft?

- Ans
- 1.  $\pi \tau . D^3 N - mm$
  - 2.  $\frac{\pi}{16} \tau . D^2 N - mm$
  - 3.  $\frac{\pi}{16} \tau . D^3 N - mm$
  - 4.  $\frac{\pi}{4} \tau . D^3 N - mm$

Question ID : 630680506866  
Option 1 ID : 6306801980969  
Option 2 ID : 6306801980971  
Option 3 ID : 6306801980972  
Option 4 ID : 6306801980970  
Status : Answered  
Chosen Option : 3

Q.57 Which of the following is primary air pollutants?

- Ans
- 1.  $O_3$
  - 2. Oxides of sulphur
  - 3. Peroxy-aceyle-nitrate
  - 4.  $H_2SO_4$

Question ID : 630680506917  
Option 1 ID : 6306801981174  
Option 2 ID : 6306801981176  
Option 3 ID : 6306801981175  
Option 4 ID : 6306801981173  
Status : Answered  
Chosen Option : 4

Q.58 In which of the following fluid the shear stress is directly proportional to the rate of shear strain?

- Ans
- 1. Non-Newtonian fluid
  - 2. Newtonian fluid
  - 3. Ideal fluid
  - 4. Ideal plastic fluid

Question ID : 630680506898  
Option 1 ID : 6306801981098  
Option 2 ID : 6306801981097  
Option 3 ID : 6306801981099  
Option 4 ID : 6306801981100  
Status : Answered  
Chosen Option : 2

Q.59 Which of the following formula we can use to calculate the cement content in mix design?

- Ans
- 1.  $Cement\ content = \frac{water\ used}{w/c\ ratio}$
  - 2. Cement content = w/c ratio  $\times$  water used
  - 3.  $Cement\ content = \frac{w/c\ ratio}{water\ used}$
  - 4. Cement content = w/c ratio – water used

Question ID : 630680506872  
Option 1 ID : 6306801980995  
Option 2 ID : 6306801980993  
Option 3 ID : 6306801980994  
Option 4 ID : 6306801980996  
Status : Answered  
Chosen Option : 1

Q.60 Which of the following is correct relation between shear force (F) and bending moment (M)?

- Ans
- 1.  $M = \frac{dF}{dx}$
  - 2.  $F = \frac{dM}{dx}$
  - 3.  $F = \frac{d^2M}{dx^2}$
  - 4.  $M = \frac{d^2F}{dx^2}$

Question ID : 630680506861  
Option 1 ID : 6306801980949  
Option 2 ID : 6306801980950  
Option 3 ID : 6306801980951  
Option 4 ID : 6306801980952  
Status : Answered  
Chosen Option : 2

Q.61 As per IS303 and 10701, what is recommended thickness (mm) of '3 ply' plywood board for structural purpose?

- Ans
- 1. 16 mm
  - 2. 4 mm
  - 3. 9 mm
  - 4. 6 mm

Question ID : 630680506936  
Option 1 ID : 6306801981250  
Option 2 ID : 6306801981251  
Option 3 ID : 6306801981249  
Option 4 ID : 6306801981252  
Status : Not Answered  
Chosen Option : --

Q.62 Which of the following is dimension less number?

I. Froude's number

II. Euler's number

- Ans
- 1. Only II
  - 2. Neither I nor II
  - 3. Both I and II
  - 4. Only I

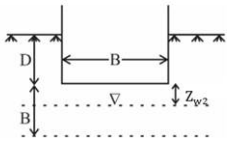
Question ID : 630680506902  
Option 1 ID : 6306801981114  
Option 2 ID : 6306801981116  
Option 3 ID : 6306801981115  
Option 4 ID : 6306801981113  
Status : Answered  
Chosen Option : 3

Q.63 As per IS456: 2000, for 28 days age at loading, what will be the creep coefficient?

- Ans
- 1. 1.9
  - 2. 1.1
  - 3. 2.6
  - 4. 1.6

Question ID : 630680506875  
Option 1 ID : 6306801981008  
Option 2 ID : 6306801981007  
Option 3 ID : 6306801981005  
Option 4 ID : 6306801981006  
Status : Answered  
Chosen Option : 2

Q.64 According to IS code method, what is the formula of reduction factor during effect of water table on bearing capacity of soil. (where,  $R_w$  = reduction factor)



Ans

- ✓ 1.  $R_w = 0.5 \left( 1 + \frac{Z_{w2}}{B} \right)$
- ✗ 2.  $R_w = 0.5 \left( 1 + \frac{Z_{w2}}{D} \right)$
- ✗ 3.  $R_w = 0.5 \left( 1 - \frac{Z_{w2}}{B} \right)$
- ✗ 4.  $R_w = 0.5 \left( \frac{Z_{w2}}{D} \right)$

Question ID : 630680506896  
Option 1 ID : 6306801981092  
Option 2 ID : 6306801981091  
Option 3 ID : 6306801981090  
Option 4 ID : 6306801981089  
Status : Answered  
Chosen Option : 1

Q.65 \_\_\_\_\_ can be defined as 'the rise of water level, which takes place due to the transformation of the unstable shooting flow to the stable streaming flow'.

Ans

- ✓ 1. Hydraulic jump
- ✗ 2. Hydrograph
- ✗ 3. Critical depth
- ✗ 4. Alternate depth

Question ID : 630680506906  
Option 1 ID : 6306801981131  
Option 2 ID : 6306801981132  
Option 3 ID : 6306801981129  
Option 4 ID : 6306801981130  
Status : Answered  
Chosen Option : 1

Q.66 Which of the following statement is correct regarding activated sludge process?

I. The activated sludge process provides an method of treating either raw sewage or settled sewage

II. The sewage effluent from primary sedimentation tank is utilised in activated sludge process

- Ans
- 1. Only I
  - 2. Both I and II
  - 3. Only II
  - 4. Neither I nor II

Question ID : 630680506915  
Option 1 ID : 6306801981165  
Option 2 ID : 6306801981167  
Option 3 ID : 6306801981166  
Option 4 ID : 6306801981168  
Status : Answered  
Chosen Option : 2

Q.67 w/c ratio mentioned in table 5 of which of the following IS code?

- Ans
- 1. IS 800
  - 2. IS 456
  - 3. IS 303
  - 4. IS 1893

Question ID : 630680506873  
Option 1 ID : 6306801980999  
Option 2 ID : 6306801980997  
Option 3 ID : 6306801980998  
Option 4 ID : 6306801981000  
Status : Answered  
Chosen Option : 2

Q.68 Which of the following equation means 'the free surface of water is parallel to the bed of the channel'? (where  $\frac{dh}{dx}$  = variation of the water depth along the bottom of the channel)

- Ans
- 1.  $\frac{dh}{dx} = \text{negative}$
  - 2.  $\frac{dh}{dx} = \text{positive}$
  - 3.  $\frac{dh}{dx} = \infty$
  - 4.  $\frac{dh}{dx} = 0$

Question ID : 630680506905  
Option 1 ID : 6306801981127  
Option 2 ID : 6306801981126  
Option 3 ID : 6306801981128  
Option 4 ID : 6306801981125  
Status : Answered  
Chosen Option : 4



Q.69 In the context of sedimentation tank, the ratio of the 'flowing through period' to the detention period is called \_\_\_\_\_.

- Ans
- 1. Sludge efficiency
  - 2. Displacement efficiency
  - 3. Detention efficiency
  - 4. Skimming through efficiency

Question ID : 630680506914  
Option 1 ID : 6306801981163  
Option 2 ID : 6306801981161  
Option 3 ID : 6306801981162  
Option 4 ID : 6306801981164  
Status : Answered  
Chosen Option : 2

Q.70 Arrange the component of flexible pavement structure from bottom to the top.

- I. Granular base course
- II. Bituminous binder
- III. Granular sub-base cum drainage layer
- IV. Prepared soil subgrade

- Ans
- 1. III, II, I, IV
  - 2. III, II, IV, I
  - 3. IV, III, II, I
  - 4. IV, III, I, II

Question ID : 630680506924  
Option 1 ID : 6306801981203  
Option 2 ID : 6306801981201  
Option 3 ID : 6306801981202  
Option 4 ID : 6306801981204  
Status : Answered  
Chosen Option : 4

Q.71 Which of the following statement is correct regarding 'HYSD' bars?

- I. HYSD bars have lugs, ribs or deformation on the surface
- II. HYSD bar have a definite yield point

- Ans
- 1. Both I and II
  - 2. Neither I nor II
  - 3. Only I
  - 4. Only II

Question ID : 630680506870  
Option 1 ID : 6306801980987  
Option 2 ID : 6306801980988  
Option 3 ID : 6306801980985  
Option 4 ID : 6306801980986  
Status : Answered  
Chosen Option : 3

Q.72 A steel plate of width 80 mm and of thickness 15 mm is bent into a circular arc of radius 8 m, what will be the maximum stress induced in plate?

- Ans
- 1.  $150 \text{ N/mm}^2$
  - 2.  $187.5 \text{ N/mm}^2$
  - 3.  $200 \text{ N/mm}^2$
  - 4.  $189.5 \text{ N/mm}^2$

Question ID : 630680506864

Option 1 ID : 6306801980964

Option 2 ID : 6306801980961

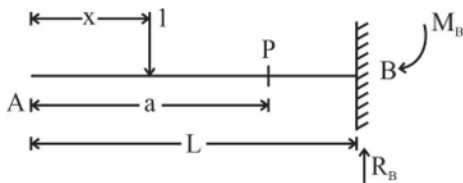
Option 3 ID : 6306801980963

Option 4 ID : 6306801980962

Status : Not Answered

Chosen Option : --

Q.73 For a given cantilever beam, what will be the influence line diagram for bending moment?



Ans

- 1.
- 2.
- 3.
- 4.

Question ID : 630680506868

Option 1 ID : 6306801980977

Option 2 ID : 6306801980978

Option 3 ID : 6306801980980

Option 4 ID : 6306801980979

Status : Answered

Chosen Option : 2

Q.74 According to dilution method, which of the following is correct formula for  $BOD_5$ ? (where  $BOD_5$  = BOD of 5 days)

- Ans
- ✓ 1.  $BOD_5 = \text{loss of oxygen in mg/l} \times \text{Dilution ratio}$
  - ✗ 2.  $BOD_5 = \frac{\text{Dilution ratio}}{\text{loss of oxygen in mg/l}}$
  - ✗ 3.  $BOD_5 = \frac{\text{loss of oxygen in mg/l}}{\text{Dilution ratio}}$
  - ✗ 4.  $BOD_5 = \text{Dilution ratio} + \text{loss of oxygen in mg/l}$

Question ID : 630680506908

Option 1 ID : 6306801981138

Option 2 ID : 6306801981139

Option 3 ID : 6306801981137

Option 4 ID : 6306801981140

Status : Answered

Chosen Option : 3

Q.75 Which of the following is assumption of Bernoulli's equation?

- I. The fluid is ideal
- II. The flow is unsteady
- III. The flow is incompressible

- Ans
- ✗ 1. Only I and II
  - ✓ 2. Only I and III
  - ✗ 3. Only II and III
  - ✗ 4. I, II and III



Question ID : 630680506901

Option 1 ID : 6306801981109

Option 2 ID : 6306801981111

Option 3 ID : 6306801981110

Option 4 ID : 6306801981112

Status : Answered

Chosen Option : 2

Q.76 In case of a perfectly saturated soil, the voids are completely filled with \_\_\_\_\_.

I. air

II. water

- Ans
- 1. Neither I nor II
  - 2. Both I and II
  - 3. Only I
  - 4. Only II

Question ID : 630680506889  
Option 1 ID : 6306801981064  
Option 2 ID : 6306801981063  
Option 3 ID : 6306801981061  
Option 4 ID : 6306801981062  
Status : Answered  
Chosen Option : 4

Q.77 Which of the following is correct formula for closing error in traversing? (where,  $\sum L$  = algebraic sum of latitudes,  $\sum D$  = algebraic sum of departure,  $e$  = closing error)

- Ans
- 1.  $e = \sqrt{(\sum L) - (\sum D)}$
  - 2.  $e = \sqrt{(\sum L)^2 - (\sum D)^2}$
  - 3.  $e = \sqrt{(\sum L) + (\sum D)}$
  - 4.  $e = \sqrt{(\sum L)^2 + (\sum D)^2}$

Question ID : 630680506933  
Option 1 ID : 6306801981240  
Option 2 ID : 6306801981237  
Option 3 ID : 6306801981239  
Option 4 ID : 6306801981238  
Status : Answered  
Chosen Option : 4

Q.78 The minimum distance open to the vision of the driver of a vehicle intending to overtake slow vehicle ahead with safety against the traffic of opposite direction is known as \_\_\_\_\_.

- Ans
- 1. head light sight distance
  - 2. minimum overtaking sight distance
  - 3. minimum intermediate sight distance
  - 4. minimum stopping sight distance

Question ID : 630680506922  
Option 1 ID : 6306801981195  
Option 2 ID : 6306801981194  
Option 3 ID : 6306801981193  
Option 4 ID : 6306801981196  
Status : Answered  
Chosen Option : 2

Q.79 The consolidation test data are used to determine which of the following property of soil?

- I. Coefficient of consolidation
- II. Coefficient of permeability
- III. Bearing capacity of soil

- Ans
- 1. Only I and II
  - 2. Only II and III
  - 3. I, II and III
  - 4. Only I

Question ID : 630680506892  
Option 1 ID : 6306801981073  
Option 2 ID : 6306801981074  
Option 3 ID : 6306801981076  
Option 4 ID : 6306801981075  
Status : Answered  
Chosen Option : 1

Q.80 Water proofing treatments are divided into which of the following categories?

- I. Integral water proofing
- II. Surface treatment

- Ans
- 1. Both I and II
  - 2. Only II
  - 3. Only I
  - 4. Neither I nor II

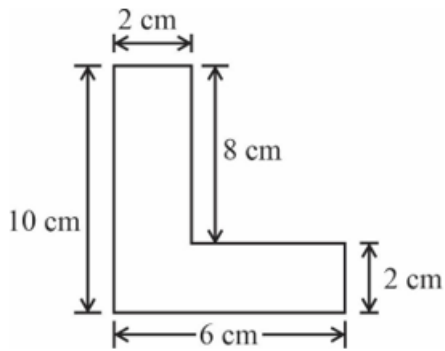
Question ID : 630680506938  
Option 1 ID : 6306801981259  
Option 2 ID : 6306801981258  
Option 3 ID : 6306801981257  
Option 4 ID : 6306801981260  
Status : Answered  
Chosen Option : 1

Q.81 The ratio of tensile stress to the corresponding strain is a constant and this ratio is known as \_\_\_\_\_.

- Ans
- 1. Modulus of elasticity
  - 2. Section modulus
  - 3. Modulus of rigidity
  - 4. Poisson's ratio

Question ID : 630680506869  
Option 1 ID : 6306801980981  
Option 2 ID : 6306801980984  
Option 3 ID : 6306801980982  
Option 4 ID : 6306801980983  
Status : Answered  
Chosen Option : 1

Q.82 What will be center of gravity of the given L – section shown in figure?



- Ans
- 1. (1.85 cm, 2.83 cm)
  - 2. (1.86 cm, 3.86 cm)
  - 3. (2.96 cm, 5.32 cm)
  - 4. (2.44 cm, 4.33 cm)

Question ID : 630680506860  
Option 1 ID : 6306801980946  
Option 2 ID : 6306801980947  
Option 3 ID : 6306801980948  
Option 4 ID : 6306801980945  
Status : Answered  
Chosen Option : 2

Q.83 The maximum strain in concrete at the outermost compression fibre is taken as \_\_\_\_\_ in bending, as per IS456: 2000.

- Ans
- 1. 0.0047
  - 2. 0.0096
  - 3. 0.0035
  - 4. 0.0038



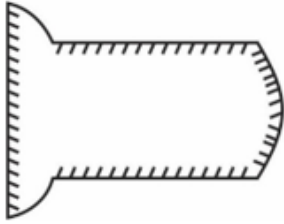
Question ID : 630680506879  
Option 1 ID : 6306801981022  
Option 2 ID : 6306801981023  
Option 3 ID : 6306801981021  
Option 4 ID : 6306801981024  
Status : Answered  
Chosen Option : 3

Q.84 What will be the correct shear stress distribution diagram for given T section?



Ans

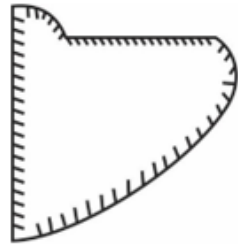
✗ 1.



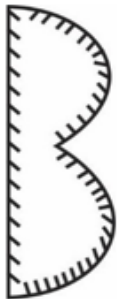
✗ 2.



✓ 3.



✗ 4.



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Question ID : 630680506865

Option 1 ID : 6306801980967

Option 2 ID : 6306801980966

Option 3 ID : 6306801980968

Option 4 ID : 6306801980965

Status : Answered

Chosen Option : 3

Q.85 Which of the following is correct representation of Poisson's ratio ( $\mu$ )?

Ans

✓ 1.  $\mu = \frac{\text{Lateral strain}}{\text{Longitudinal strain}}$

✗ 2.  $\mu = \frac{\text{Lateral stress}}{\text{Longitudinal strain}}$

✗ 3.  $\mu = \frac{\text{Lateral strain}}{\text{Longitudinal stress}}$

✗ 4.  $\mu = \frac{\text{Lateral stress}}{\text{Longitudinal stress}}$

Question ID : 630680506863

Option 1 ID : 6306801980960

Option 2 ID : 6306801980957

Option 3 ID : 6306801980958

Option 4 ID : 6306801980959

Status : Answered

Chosen Option : 1



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